

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

Application Number	10/007/310
Filing Date	November 30, 2001
First Named Inventor	Bender
Group Art Unit	
Examiner Name	
Attorney Docket Number	JB-301

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
BMB		4,141,830		Last	2/27/1979	_____
		4,179,616		Coviello et al.	12/18/1979	_____
		4,230,571		Dadd	10/28/1980	_____
		4,273,660		Beitzel	5/16/1981	_____
		4,274,970		Beitzel	6/23/1981	_____
		4,437,999		Mayne	3/20/1984	_____
		4,595,498		Cohen et al.	6/17/1986	_____
		4,787,980		Ackermann et al.	11/29/1988	_____
		4,792,407		Zeff et al.	12/20/1988	_____
		4,913,827		Nebel	4/3/1990	_____
		5,124,051		Bircher et al.	6/23/1992	_____
		5,130,031		Johnston	7/14/1992	_____
		5,151,252		Mass	9/29/1992	_____
		5,178,755		LaCrosse	1/12/1993	_____
		5,308,480		Hinson et al.	5/3/1994	_____
		5,466,367		Coate et al.	11/14/1995	_____
		5,330,661		Okuda et al.	7/19/1994	_____
		5,547,590		Szabo	9/20/1996	_____
		5,124,131		Wekhof	6/23/1992	_____
BMA		5,170,091		Wekhof	12/8/1992	_____

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Barbara M. Hoey

Date	
Considered	

5/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 5

Complete if Known

Application Number	10/007/310
Filing Date	November 30, 2001
First Named Inventor	Bender
Group Art Unit	
Examiner Name	
Attorney Docket Number	JB-301

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code² (if known)			
Bm		4,910,438		Fransworth	3/20/1990	
		4,400,270		Hillman	8/23/1983	
		5,789,755		Bender	8/4/1998	
		5,648,592		Pierce	7/15/1997	
		5,480,562		Lemelson	1/2/1996	
		5,834,784		Morgan et al.	11/10/1998	
		6,201,355		Morgan et al.	3/13/2001	
		6,028,316		Bender	2/22/2000	
		4,758,415		Patil	7/19/1988	
		5,846,604		Caldwell	12/8/1998	
		5,652,050		Pall et al.	7/29/1997	
		5,891,399		Owesen	4/6/1999	
		5,954,902		Caldwell	9/21/1999	
		5,607,593		Cote et al.	3/4/1997	
		5,686,503		Nohr et al.	11/1/1997	
		5,688,378		Khoe et al.	11/18/1997	
		5,741,427		Watts et al.	4/21/1988	
		5,238,581		Frame et al.	8/24/1993	
		4,846,978		Leggett et al.	7/11/1989	
Bm		5,312,5634		Liboff et al.	5/17/1994	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Betsy M. Hoey

Date Considered

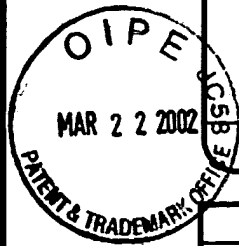
5/29/03

*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Sheet	3	of	5	Attorney Docket Number	JB-301
-------	---	----	---	------------------------	--------



U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Betty M. Hoels

Date Considered	
-----------------	--

5/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

4

of

5

Complete if Known

Application Number	10/007/310
Filing Date	November 30, 2001
First Named Inventor	Bender
Group Art Unit	
Examiner Name	
Attorney Docket Number	JB-301

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BMA	*	Auburn Journal, "Two chemists may have 'stumbled' onto MTBE solution", Jan. 2 1998 1 page	
	*	Assciated Press, " New way to purify water that has MTBE", undate, 1 page	
	#	Sacramento Bee, "EPA asked to reject MTBE fuel additive:", Dec. 10, 1997, 2 pages	
	*	SN&R, "trouble on Tap: What's in Sacrament's Drinking water?", Dec. 11, 1997, 3 pgs.	
	*	Komex-H2O Science, unversity of Southern California, "literature Review of Technologies for Treatment Of Methy Tertiary Butyl Ether (MTBE) in Drinking water, Apr. 22, 1997	
	*	World Wide Web publications, :Chvron Gasoline Questions and Answers: Methy Tertiary Butyl Ether (MTBE):, 8 pages	
	*	World Wide Web publication,: Biodegradation MTBE and Other Oxygenates" kulpa3.html at www.nd.edu, 2 apges	
	*	Water Disinfection with Ultraviolet Light, Aquagine Wedeco Environmental Systems,INC. brochure, 1996	
	*	Ultraviolet- UV Disinfection in Power Cogeneration, Ultrapure Water, Vo. 12, No.5 july/august 1995	
		Photoytic oxidation of contaminated water using a high energy, pulsed ultr-violet flashlamp operating in the blackbody regime, James B. bender, 1997, OSA symposium "UV Sources for Lithpgraphy, mat4erials processing , and Biomedical Applications: 2" October 1997	
BMA	*	Environmental Product Porfiles: UVERG Portable UV Detoxifaction System; National Environment Technology Applicants Corporation, 1 page	

Examiner
Signature

Betsey M. Hoey

Date
Considered

5/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

5

of

5

Complete if Known

Application Number	10/007/310
Filing Date	November 30, 2001
First Named Inventor	Bender
Group Art Unit	
Examiner Name	
Attorney Docket Number	JB-301

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BMA		Geraghty & Miller, Inc., The Groudwater Newsletter: Portable UV Treament System Being commercialized, 1 page	
		Haztech News: Process uses Pulsing UV Continumm to Destroy Organics in Water, Air Vol. 7, No. 8, April 16, 1992, 1 page	
	*	Technology Notebook: UV tehcnology nears commercialzatrion, Kimberly A Roy. 2 pgs.	
		Ultraviolet Energy Generators, Inc., Treatment of Contaminated Water, Air, and Soil with UV Flashlamps; Alex Wekhof, Novmeber 1991, 7 pages	
		Technology; The next generation of Ultraviolet light technologies; Kimberly A. Roy 2 pgs.	
	*	Treatment of Groundwater with UV Flashlamps, The Third Generation UV Systems Alex Wekhof, Edwin Folsom Jr. and Yuval Halpren, November/December 1992; 6 pgs.	
BMA	*	AIWEK-TEC- PUVd technology, Alex Wekhof, 6 pages	

Examiner
Signature

Betsy M. Hoy

Date

Considered

5/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.